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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/898,586

DATE: 09/13/2001  
TIME: 12:51:18

Input Set : A:\Cural381.app  
Output Set: N:\CRF3\09132001\I898586.raw

3 <110> APPLICANT: Gerlach, Valerie L  
 4 MacDougall, John R  
 5 Smithson, Glennda  
 7 <120> TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same  
 9 <130> FILE REFERENCE: 15966-638CIP  
 11 <140> CURRENT APPLICATION NUMBER: 09/898,586  
 C--> 12 <141> CURRENT FILING DATE: 2001-08-27  
 14 <150> PRIOR APPLICATION NUMBER: 60/177,839  
 15 <151> PRIOR FILING DATE: 2000-01-25  
 17 <150> PRIOR APPLICATION NUMBER: 60/176,134  
 18 <151> PRIOR FILING DATE: 2000-01-14  
 20 <150> PRIOR APPLICATION NUMBER: 60/175,989  
 21 <151> PRIOR FILING DATE: 2000-01-13  
 23 <150> PRIOR APPLICATION NUMBER: 60/218,324  
 24 <151> PRIOR FILING DATE: 2000-07-14  
 26 <150> PRIOR APPLICATION NUMBER: 60/220,253  
 27 <151> PRIOR FILING DATE: 2000-07-24  
 29 <150> PRIOR APPLICATION NUMBER: 60/178,191  
 30 <151> PRIOR FILING DATE: 2000-01-26  
 32 <150> PRIOR APPLICATION NUMBER: 60/178,227  
 33 <151> PRIOR FILING DATE: 2000-01-26  
 35 <150> PRIOR APPLICATION NUMBER: 60/220,590  
 36 <151> PRIOR FILING DATE: 2000-07-25  
 38 <150> PRIOR APPLICATION NUMBER: 09/761,288  
 39 <151> PRIOR FILING DATE: 2001-01-16  
 41 <160> NUMBER OF SEQ ID NOS: 104  
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 53 tctttgcact tttcctgtgt ctctatttaa cagggctgtt tgaaaactta ctcatcttgc 180  
 54 tggccattgg ctggatcac tgccttcaca cacccatgtt tttcttcctt gccaatctgt 240  
 55 ccttggtaga cctctgcctt ccctcagcca cagtccccaa gatgtactg aacatccaaa 300  
 56 cccaaaccca aaccatctcc tatcccggct gcctggctca gatgtattt tttatgtatgt 360  
 57 ttgccaatat ggacaatttt cttctcacag tggatggcata tgaccgttac gtggccatct 420  
 58 gtcacccttt acattactcc accattatgg ccctgcgcct ctgtgcctct ctggtagctg 480  
 59 caccttgggt cattgcatt ttgaaccctc tcttgacac tcttatgtatg gcccacatctgc 540  
 60 acttctgttc tgataatgtt atccaccatt tcttctgtga tatcaactct ctccctccctc 600  
 61 tgcctgttc cgacaccagt ctaatcagt tgagtgttgc ggctacgggt gggctgatct 660  
 62 ttgtggtacc ttcaatgtt atccatgtt cttatcttgc cattgtttct ctgtgtatgt 720  
 63 aagtcccttc tgeccaagga aaactcaagg ctttctctac ctgtggatct caccttgcct 780  
 64 tggtcattct ttctatggg gcaatcacag gggcttatat gagcccccta tccaatcact 840  
 65 ctactgaaaa agactcagcc gcatcagtca tttttatgtt tttatgttgcacct gtgttgaatc 900

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Input Set : A:\Cura1381.app  
Output Set: N:\CRF3\09132001\I898586.raw

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 81 20 25 30  
 83 Cys Leu Tyr Leu Thr Gly Leu Phe Gly Asn Leu Leu Ile Leu Leu Ala  
 84 35 40 45  
 86 Ile Gly Ser Asp His Cys Leu His Thr Pro Met Tyr Phe Phe Leu Ala  
 87 50 55 60  
 89 Asn Leu Ser Leu Val Asp Leu Cys Leu Pro Ser Ala Thr Val Pro Lys  
 90 65 70 75 80  
 92 Met Leu Leu Asn Ile Gln Thr Gln Thr Ile Ser Tyr Pro Gly  
 93 85 90 95  
 95 Cys Leu Ala Gln Met Tyr Phe Cys Met Met Phe Ala Asn Met Asp Asn  
 96 100 105 110  
 98 Phe Leu Leu Thr Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys His  
 99 115 120 125  
 101 Pro Leu His Tyr Ser Thr Ile Met Ala Leu Arg Leu Cys Ala Ser Leu  
 102 130 135 140  
 104 Val Ala Ala Pro Trp Val Ile Ala Ile Leu Asn Pro Leu Leu His Thr  
 105 145 150 155 160  
 107 Leu Met Met Ala His Leu His Phe Cys Ser Asp Asn Val Ile His His  
 108 165 170 175  
 110 Phe Phe Cys Asp Ile Asn Ser Leu Leu Pro Leu Ser Cys Ser Asp Thr  
 111 180 185 190  
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 114 195 200 205  
 116 Val Pro Ser Val Cys Ile Leu Val Ser Tyr Ile Leu Ile Val Ser Ala  
 117 210 215 220  
 119 Val Met Lys Val Pro Ser Ala Gln Gly Lys Leu Lys Ala Phe Ser Thr  
 120 225 230 235 240  
 122 Cys Gly Ser His Leu Ala Leu Val Ile Leu Phe Tyr Gly Ala Ile Thr  
 123 245 250 255  
 125 Gly Val Tyr Met Ser Pro Leu Ser Asn His Ser Thr Glu Lys Asp Ser  
 126 260 265 270  
 128 Ala Ala Ser Val Ile Phe Met Val Val Ala Pro Val Leu Asn Pro Phe  
 129 275 280 285  
 131 Ile Tyr Ser Leu Arg Asn Asn Glu Leu Lys Gly Thr Leu Lys Lys Thr  
 132 290 295 300  
 134 Leu Ser Arg Pro Gly Ala Val Ala His Ala Cys Asn Pro Ser Thr Leu  
 135 305 310 315 320  
 137 Gly Gly Arg Gly Trp Ile Met Arg Ser Gly Asp Arg Asp His Pro

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Input Set : A:\Cural381.app  
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| 151 gatttcctct gtcataaggga tatgggagac aataataacat ccatcagaga gttcctccta 120  |     |     |      |
| 152 ctgggatttc ccgttggccc aaggatttag atgtcctct ttgggctctt ctccctgttc 180     |     |     |      |
| 153 tacgtcttca ccctgctggg gaacgggacc atactggggc tcatactcaact ggactccaga 240  |     |     |      |
| 154 ctgcacgccc ccatgtactt cttectctca cacctggcg cgctgcacat cgccctacgcc 300    |     |     |      |
| 155 tgcaacacgg tgccccggat gctggtaaac ctctgcac cagccaagcc catctcctt 360       |     |     |      |
| 156 gcgggcccga ttagtgcagac ctttctgttt tccacttttgc tgcacaga atgtctcctc 420    |     |     |      |
| 157 ctggtggtga tgtcttatga tctgtacgtg gccatctgcc acccccctccg atatggcc 480     |     |     |      |
| 158 atcatgacct ggagagtctg catcaccctc gcggtgactt cctggaccac tggagtccctt 540   |     |     |      |
| 159 ttatccttga ttcatcttgtt gttacttcta cctttaccct tctgttaggcc ccagaaaaatt 600 |     |     |      |
| 160 tatactttt tttgtaaat cttggctgtt ctcaaacttg cctgtgcaga taccacatc 660       |     |     |      |
| 161 aatgagaaca tggcttggc cggagcaatt tctgggctgg tggaccctt gtccacaatt 720      |     |     |      |
| 162 gtagtttcat atatgtcat cctctgtgt atccttcaga tccaatcaag ggaagttcag 780      |     |     |      |
| 163 aggaaagcct tccgcacctg cttctccac ctctgtgtga ttggactcgt ttatggcaca 840     |     |     |      |
| 164 gccattatca tgtatgttgg acccagatat gggAACCCCA aggagcagaa gaaatatctc 900    |     |     |      |
| 165 ctgctgttc acagcctctt taatccatg ctcaatcccc ttatctgttag tcttaggaac 960     |     |     |      |
| 166 tcagaagtga agaatactttt gaagagagtg ctggagtag aaaggcctt atgaaaagga 1020    |     |     |      |
| 167 ttatggcatt gtgactgaca  |     |     | 1040 |
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| 173 <213> ORGANISM: Homo sapiens   |     |     |      |
| 175 <400> SEQUENCE: 4  |     |     |      |
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| 177 1 5 10 15  |     |     |      |
| 179 Pro Val Gly Pro Arg Ile Gln Met Leu Leu Phe Gly Leu Phe Ser Leu          |     |     |      |
| 180 20 25 30   |     |     |      |
| 182 Phe Tyr Val Phe Thr Leu Leu Gly Asn Gly Thr Ile Leu Gly Leu Ile          |     |     |      |
| 183 35 40 45   |     |     |      |
| 185 Ser Leu Asp Ser Arg Leu His Ala Pro Met Tyr Phe Phe Leu Ser His          |     |     |      |
| 186 50 55 60   |     |     |      |
| 188 Leu Ala Val Val Asp Ile Ala Tyr Ala Cys Asn Thr Val Pro Arg Met          |     |     |      |
| 189 65 70 75 80  |     |     |      |
| 191 Leu Val Asn Leu Leu His Pro Ala Lys Pro Ile Ser Phe Ala Gly Arg          |     |     |      |
| 192 85 90 95   |     |     |      |
| 194 Met Met Gln Thr Phe Leu Phe Ser Thr Phe Ala Val Thr Glu Cys Leu          |     |     |      |
| 195 100 105 110  |     |     |      |
| 197 Leu Leu Val Val Met Ser Tyr Asp Leu Tyr Val Ala Ile Cys His Pro          |     |     |      |
| 198 115 120 125  |     |     |      |
| 200 Leu Arg Tyr Leu Ala Ile Met Thr Trp Arg Val Cys Ile Thr Leu Ala          |     |     |      |
| 201 130 135 140  |     |     |      |
| 203 Val Thr Ser Trp Thr Thr Gly Val Leu Leu Ser Leu Ile His Leu Val          |     |     |      |

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|     |             |             |              |            |             |             |      |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| 204 | 145         | 150         | 155          | 160        |             |             |      |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 206 | Leu         | Leu         | Leu          | Pro        | Leu         | Pro         | Phe  | Cys | Arg | Pro | Gln | Lys | Ile | Tyr | His | Phe |     |     |     |     |
| 207 |             |             |              |            |             |             |      |     |     |     |     |     |     |     |     |     | 165 | 170 | 175 |     |
| 209 | Phe         | Cys         | Glu          | Ile        | Leu         | Ala         | Val  | Leu | Lys | Leu | Ala | Cys | Ala | Asp | Thr | His |     |     |     |     |
| 210 |             |             |              |            |             |             |      |     |     |     |     |     |     |     |     |     | 180 | 185 | 190 |     |
| 212 | Ile         | Asn         | Glu          | Asn        | Met         | Val         | Leu  | Ala | Gly | Ala | Ile | Ser | Gly | Leu | Val | Gly |     |     |     |     |
| 213 |             |             |              |            |             |             |      |     |     |     |     |     |     |     |     |     | 195 | 200 | 205 |     |
| 215 | Pro         | Leu         | Ser          | Thr        | Ile         | Val         | Val  | Ser | Tyr | Met | Cys | Ile | Leu | Cys | Ala | Ile |     |     |     |     |
| 216 |             |             |              |            |             |             |      |     |     |     |     |     |     |     |     |     | 210 | 215 | 220 |     |
| 218 | Leu         | Gln         | Ile          | Gln        | Ser         | Arg         | Glu  | Val | Gln | Arg | Lys | Ala | Phe | Arg | Thr | Cys |     |     |     |     |
| 219 |             |             |              |            |             |             |      |     |     |     |     |     |     |     |     |     | 225 | 230 | 235 | 240 |
| 221 | Phe         | Ser         | His          | Leu        | Cys         | Val         | Ile  | Gly | Leu | Val | Tyr | Gly | Thr | Ala | Ile | Ile |     |     |     |     |
| 222 |             |             |              |            |             |             |      |     |     |     |     |     |     |     |     |     | 245 | 250 | 255 |     |
| 224 | Met         | Tyr         | Val          | Gly        | Pro         | Arg         | Tyr  | Gly | Asn | Pro | Lys | Glu | Gln | Lys | Lys | Tyr |     |     |     |     |
| 225 |             |             |              |            |             |             |      |     |     |     |     |     |     |     |     |     | 260 | 265 | 270 |     |
| 227 | Leu         | Leu         | Leu          | Phe        | His         | Ser         | Leu  | Phe | Asn | Pro | Met | Leu | Asn | Pro | Leu | Ile |     |     |     |     |
| 228 |             |             |              |            |             |             |      |     |     |     |     |     |     |     |     |     | 275 | 280 | 285 |     |
| 230 | Cys         | Ser         | Leu          | Arg        | Asn         | Ser         | Glu  | Val | Lys | Asn | Thr | Leu | Lys | Arg | Val | Leu |     |     |     |     |
| 231 |             |             |              |            |             |             |      |     |     |     |     |     |     |     |     |     | 290 | 295 | 300 |     |
| 233 | Gly         | Val         | Glu          | Arg        | Ala         | Leu         |      |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 234 |             |             |              |            |             |             |      |     |     |     |     |     |     |     |     |     | 305 | 310 |     |     |
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| 244 | tgggtttctc  | cagectgggg  | gagctccagc   | tgctgtttt  | tgtcatctt   | cttccttat   | 120  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 245 | acttgacaat  | cctgggtggcc | aatgtgacca   | tcatggccgt | tattcgcttc  | agctggactc  | 180  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 246 | tccacactcc  | catgtatggc  | tttcttattca  | tccttcattt | ttctgagttcc | tgctacactt  | 240  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 247 | ttgtcatcat  | ccctcagctg  | ctgggtccacc  | tgctctcaga | caccaagacc  | atctccttca  | 300  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 248 | tggcctgtgc  | caccctagctg | ttcttttcc    | ttggctttgc | ttgcaccaac  | tgcctcctca  | 360  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 249 | ttgctgtgtat | gggatatatgt | cgctatgttag  | caatttgtca | ccctctgagg  | tacacactca  | 420  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 250 | tcataaaacaa | aaggctgggg  | ttggagttga   | tttctctctc | aggagccaca  | ggtttcttta  | 480  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 251 | ttgcttttgt  | ggccaccaac  | ctcatttgc    | acatgcgttt | ttgtggcccc  | aacagggtta  | 540  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 252 | accactattt  | ctgtgacatg  | gcacctgtta   | tcaagtttgc | ctgcactgac  | accatgtga   | 600  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 253 | aagagctggc  | tttattttgc  | ctcagcatcc   | tggtaattat | ggtcctttt   | ctgttaattc  | 660  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 254 | tcatataccta | tggcttcata  | gttaacacca   | tccttgcgtt | cccctcagct  | gagggcaaga  | 720  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 255 | aggcctttgt  | cacctgtgcc  | tcacatctca   | ctgtggcttt | tgtccactat  | ggctgtgcct  | 780  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 256 | ctatcatcta  | tctgcggccc  | aagtccaaat   | ctgcctcaga | caaggatcag  | ttggtggcag  | 840  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 257 | tgacctacac  | agtggttact  | cccttactta   | atccctttgt | ctacagtcgt  | aggaacaaag  | 900  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 258 | aggtaaaaac  | tgcattgaaa  | agagtttttg   | gaatgcgtt  | ggcaaccaag  | atgagctaac  | 960  |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 259 | aaaaaaataat | aataaaatta  | actaggatag   | tcacagaaga | aatcaaaggc  | ataaaaatttt | 1020 |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 260 | ctgaccttta  | atgcatgtct  | cagacagtgt   | ttccaaggat | taagactact  | cttgcctttt  | 1080 |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 261 | tatTTTCTCC  |             |              |            |             |             | 1090 |     |     |     |     |     |     |     |     |     |     |     |     |     |
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| 267 | <213>       | ORGANISM:   | Homo sapiens |            |             |             |      |     |     |     |     |     |     |     |     |     |     |     |     |     |

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 274 20 25 30  
 276 Leu Leu Leu Tyr Leu Thr Ile Leu Val Ala Asn Val Thr Ile Met Ala  
 277 35 40 45  
 279 Val Ile Arg Phe Ser Trp Thr Leu His Thr Pro Met Tyr Gly Phe Leu  
 280 50 55 60  
 282 Phe Ile Leu Ser Phe Ser Glu Ser Cys Tyr Thr Phe Val Ile Ile Pro  
 283 65 70 75 80  
 285 Gln Leu Leu Val His Leu Leu Ser Asp Thr Lys Thr Ile Ser Phe Met  
 286 85 90 95  
 288 Ala Cys Ala Thr Gln Leu Phe Phe Leu Gly Phe Ala Cys Thr Asn  
 289 100 105 110  
 291 Cys Leu Leu Ile Ala Val Met Gly Tyr Asp Arg Tyr Val Ala Ile Cys  
 292 115 120 125  
 294 His Pro Leu Arg Tyr Thr Leu Ile Ile Asn Lys Arg Leu Gly Leu Glu  
 295 130 135 140  
 297 Leu Ile Ser Leu Ser Gly Ala Thr Gly Phe Phe Ile Ala Leu Val Ala  
 298 145 150 155 160  
 300 Thr Asn Leu Ile Cys Asp Met Arg Phe Cys Gly Pro Asn Arg Val Asn  
 301 165 170 175  
 303 His Tyr Phe Cys Asp Met Ala Pro Val Ile Lys Leu Ala Cys Thr Asp  
 304 180 185 190  
 306 Thr His Val Lys Glu Leu Ala Leu Phe Ser Leu Ser Ile Leu Val Ile  
 307 195 200 205  
 309 Met Val Pro Phe Leu Leu Ile Leu Ile Ser Tyr Gly Phe Ile Val Asn  
 310 210 215 220  
 312 Thr Ile Leu Lys Ile Pro Ser Ala Glu Gly Lys Lys Ala Phe Val Thr  
 313 225 230 235 240  
 315 Cys Ala Ser His Leu Thr Val Val Phe Val His Tyr Gly Cys Ala Ser  
 316 245 250 255  
 318 Ile Ile Tyr Leu Arg Pro Lys Ser Lys Ser Ala Ser Asp Lys Asp Gln  
 319 260 265 270  
 321 Leu Val Ala Val Thr Tyr Thr Val Val Thr Pro Leu Leu Asn Pro Leu  
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 333 <212> TYPE: DNA  
 334 <213> ORGANISM: Homo sapiens  
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 338 tgggttctc cagctgggg gagctccagc tgctacttt tgtcatctt ctttccttat 120  
 339 acttgacaat cctggtggcc aatgtgacca tcatggccgt tattcgcctc agctggactc 180

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/898,586

DATE: 09/13/2001  
TIME: 12:51:20

Input Set : A:\Cura1381.app  
Output Set: N:\CRF3\09132001\I898586.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
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L:1642 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:1645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35  
L:2209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:2212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49  
L:2749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63  
L:2752 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63